Receiving Report

Su	pplier: BRA	<u>ะ</u> กง	5× 0	Batch No: Dart P/O:	3	304/2 5790	
Packing Slip: nvoice: Receipt: New Supplier	Yes No Cash Cr Yes No C		Release N Waybill At Shipment QC18 Insp Work Ord	tached: Complete pection	Yes	No No No	N/A
Piscrepancies Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR; Number
			The section of the se		24 3 / · · · · ·		
7				Initials of	Receiver	QC12	-://2
		34		5		30.7283.	

H:\PORMS\Purchasing\approved purch\RECREPORT Rev I



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO25790

Purchase Order Date 9/16/2014 PO Print Date 9/16/2014

Page Number 1 of 2

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 USA VU-BEA001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

305-925-2600

FedEx PI collect

Buyer

Michael Gregoire

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ CD Taxable Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	AN3C11A	BOLT	9/18/2014 Yes 9/18/2014	50.00 Each	\$0.80	. \$40.00
					Line Total:	\$40.00
2	MS27039C1-14	Screw	9/18/2014 FN Yes 9/18/2014	100.00 Each	\$0.55	\$55.00
		•			Line Total:	\$55.00
3	CR3553-4-02	RIVET	9/18/2014 FN Yes 9/18/2014	100.00 Each	\$1.09	\$109,00

Note:



B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT

Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.beconsumables.com
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: B/E Aerospace Consumables Management • JPMorgan Chase Bank New York
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER
HW8K2M
PAGE 1

5040 79:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

HISTORY REPRINT

					STORY REP				T			
ORDER NO.			DATE	SHIP VIA			TERMS		SHIPPING TERMS			
PO257	90		09/16/14	FEDX INTL	P1 COLL		NET 45		FOB-CARSON			
	QUANTITY ORDERED		MBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT			
	FED. TA	X# 06-	-120-9796									
2	100	SCREW TARIE MFR: CTRL# LOT#:	039C1-14 N FF: 7318.15.60 3V FASTENERS # : 2011H1995 : 889677 QTY: 100 :9A991		0.550	EA		100	55.00			
		These expo	ntry Origin: ý se commodities orted from the h the Export A ersion contrar OLTS AND NUTS ARTS FOR CIVIL	, technolog United Sta dministrati y to U.S. l	tes in acconstant	ord ion	ance s.					
	FREIGHT	ACCT#	15179324-0									
	TEL# 613	1										
							:	SUBTOTAL HANDLING DISC/ALL INCM FREIGHT	G: 0.00 L: 0.00 T: 0.00			
emar	98FEE8	SHIPI	PED ON 09/16/1	4				TOTAL	: 55.00US			
	1		TERIAL TO BE RETUR	MED MUST HAVI	E DDIOD ALITHO	DIZA	TION BY B/E AF	ROSPACE				

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 1351 CHARLES WILLARD ST, CARSON, CA 90746



PACKING LIST

3-V Fastener Co., Inc. 320 Reed Circle Corona. CA 92879 Tel: 951-734-4391 Fax: 951-734-0127 www.3VFasteners.com

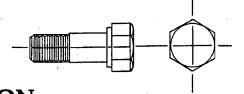
SHIPPED TO: B/E AEROSPACE 9835 NW 14TH STREET MIAMI FL 33172

		. !	CUSTOMER 141327	OUR ORDER NO. 102358	PICK SLIP NO. 1315823		R NO. E994	08/18/2011
2.000	M527039C1-14 Rev.3	LTA			889	67,7		27,370
						•		
	·						,	·
						·		
					-			
			:					

27,370



320 Reed Circle • Corona, CA 92879 Tel: 951-734-4391 • FAX: 951-734-9488



TEST CERTIFICATION

Cert # : 50272 Cert Date: 08/19/11 MFG.02/14/11

LOT #: 889677 grande e galanda a la giffigate da setteda.

Page: State of the first

Cust # : 141327

P.O. #: OTE994

Customer: B/E AEROSPACE P.O. Qty:

on on the company of the company of

50000

Ship To : MIAMI, FL Ship #: 1315823

Ship Qty: 27370

Part #: MS27039C1-14 MFG. Part #: NASM27039C1-14 REV.3

Material Spec: AMS5731L - The second of Heat #: 93FC - The Fire To The Transfer

Type: A286 Mill, Vendor: ALLVAC / BROWN PACIFIC Procure Spec: NASM7839

Code: 12690 Metallurgical Tests

Metallurgical lests
Hardness: N/A Grain Size: N/A Decarb: NONE

Metallurgical, Special Process and Subcontracted Test Information THREADS INSPECTED PER MIL-S-8879C N.3, AS8879D OR MIL-S-7742D A.1 MAG PERM <2.0 PER ASTM A 342/A 342M 04 MET.3 MACRO AND MICROSTRUCTURE SATISFACTORY 32 PCS HEAT TREAT PER AMS2759/3E BY CONTINENTAL #103879 PASSIVATE PER AMS2700C MET.1 TY2 CL1 BY ACTIVE #104244 DFARS 252.225-7014 ALT I ONLY AS IT APPLIES PER P.O.

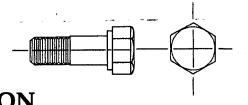
爱好到的,我们是我们的自己的,我们就是一个女子,我们就是一个女子,我们就是一个女子,我们就是一个女子,他们就是一个女子,他们就是一个女子,他们就是一个女子,他们

Tensile per NASM1312-8

Tensile per NASM1312-8 Minimum Requiremen	nt: 2500 LB	S			
Load :	4023	3952	4020 THD	4042	4000
Failure:	THD	THD		THD	THD
pho Load on English on a	4002	4037	4058	3994	3998
	THD	THD	THD	THD	THD
Load :	3993	4063	4031	4069	4038
Failure:	THD	THD	THD	THD	THD
Load :	4066	4082	3985	3988	4044
Failure:	THD	THD	THD	THD	THD
Load :	4022	4011	4063	4015	4081
Failure:	THD	THD	THD	THD	THD
Load : Failure:	4107	4103	4075	4027	4035
	THD	THD	THD	THD	THD
Load : Failure:	4051 THD	4033 THD	0	0	0



320 Reed Circle • Corona, CA 92879 Tel: 951-734-4391 • FAX: 951-734-9488



TEST CERTIFICATION

Page:

gradi — teledi saskeri s Sura di kalendari

Maria Caramana Salah Maria Salah

 $\begin{array}{ll} \chi_{A}^{(1)}(x) & = & \chi_{A}(x) + h(x)^{(1)}, \ \forall x \in \mathbb{R}^{n}, \ \forall x \in \mathbb{R}^{n}, \ \forall x \in \mathbb{R}^{n}, \end{array}$

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Customer: B/E AEROSPACE LOT #: 889677

[14] (14) (15) (15) (16)

 $\begin{array}{ll} \sum_{i=1}^{n-1} g_i & \text{i. ...} & \text{i. ...} \text{i. ...} \text{i. ...} \\ g_i & \text{i. ...} & \text{i. ...} & \text{i. ...} \\ g_i & \text{i. ...} & \text{i. ...} & \text{i. ...} \\ \end{array}$

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Cert #: 50272

THIS TEST CERTIFICATION SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF 3-V FASTENERS CO., INC. TESTING LABORATORY. THIS CERTIFICATION SHALL NOT BE USED BY THE CUSTOMER TO CLAIM PRODUCT ENDORSEMENT BY ANY AGENCY OF THE U.S. GOVERNMENT. 3-V FASTENERS CERTIFIES THAT THE PRODUCT SHIPPED ON ABOVE PURCHASE ORDER WERE MANUFACTURED, INSPECTED AND TESTED IN COMPLIANCE WITH ALL APPLICABLE PRINTS AND SPECIFICATIONS. ALL SUPPORTING DOCUMENTATION IS ON FILE AT 3-V. REGUSTERED SO 9001: 2008 + AS9100 SAI GLOBAL CERT-0049384; GAGE CODE TER65, BAE APPROVAL BAE/AG/30148/CAL, AIRBUS APPROVAL 30085.

QUALITY ASSURANCE LAB SUPERVISOR_C

 $\frac{2\sqrt{n\pi}}{3\sqrt{n}} = \frac{2\pi}{3} \left(\frac{1}{2} \left($

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 $\frac{\partial \mathcal{L}}{\partial x_i \partial x_i} = \{x_i, x_i \in \{x_i\}_{i=1}^n | x_i \in \{x_i\}$

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 $\begin{array}{ll} \frac{\partial}{\partial x_i^2} (x_i - x_i^2 - D x_i x_i + x_i C x_i x_i) \in \mathbb{Q}, \\ (x_i x_i - x_i x_i - x_i x_i - x_i x_i) = 0.1 & \text{of } i \leq i. \end{array}$

Angry 1870 - Alberto Green Made Co. Reservoir de Carlos Composition de Co.

 $\begin{array}{ll} \int_{-\infty}^{\infty} \frac{d^2 f}{df} dg = 0, \quad \text{if } f = 1, \text{ we find } f < 0, \text{ we find } f < 0. \text{ where } f < 0. \text{ whe$

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DANIEL E. HENSON

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3V FASTENERS CO., INC.		FINAL I	NSPECTION REPORT			P	G 1 OF 2			
-PART NUMBER		REV.	LOT #	LO'	r siz e		SAMPLE SIZE			
MS27039C1-14		3	889677	55	519		500032			
DESC: CRUCI PAN HD EXT.		PRINT	NUMBER		SAMPLING	PLA	N			
10/32 X .906		NASM27	039		ANSI Z1.	4, GL II / S-3				
PRINT CHARACTERISTIC	PRIN	T REQ.	ACTUAL	ACC.	REJ.	GAG	E EQUIPMENT			
HEAD MARKING	2703 LOGO	9C1-14	27039 C1-14 Logo	/	,	vis	UAL/10X			
LENGTH +.032015	.937	891	918 - 909		<u></u>	CAL	IPER			
GRIP LENGTH +015	.453	423	433 - 428	/		CAL	IPER/OPT.COMP.			
THREAD PITCH DIA.	.169	71674	1684 - 1679	/		TRI	-ROLL			
THREAD FUN. DIA.	.169	71674	.16841679			TRI	-ROLL/RING GAGE			
THREAD MAJOR DIA.	.190	01840	1870-1857			MICROMETER				
THREAD ROOT RADIUS	1	N/A	N/A			OPTICAL COMPARATOR				
THREAD MINOR DIA.	, I	N/A	N/A	_		TRI-ROLL/OPT.COMP.				
GRIP DIAMETER	.189	01860	1881-1874			MICROMETER/OPT COM				
HEAD DIMENSION	.373-	357	370-361	1		CALIPER				
BEARING SURFACE DIA.	1	N/A	NA	~		OPTICAL COMPARATOR				
BEARING SURF. HGT.	1	N/A	NA			OPT	ICAL COMPARATOR			
RADIUS UNDER HEAD	.020-	010	020018	1		OPT	ICAL COMPARATOR			
HEAD HEIGHT	.133-	122	131- 124	/		CAL	IPER/MICROMETER			
SOCKET/RECESS DEPTH	.124	MAX.	< .124			HEI	GHT STAND			
SOCKET/RECESS WIDTH	.199-	186	197 - 186			CAL	IPER/PIN GAGE			
SOCK./RECESS GAGING	.113-	.089	106089	1		PEN	ETRATION GAGE			
FIN THD, B/S, RAD, GRIP	32/RF	MAX.	< 32	/		СОМ	PARATOR GAGE/10X			
FIN. ALL OTHERS	125/F	RA MAX.	< 125			СОМ	PARATOR GAGE/10X			
BURRS/SHARP EDGES	NONE	ALLOWED	NONE	/		VIS	UAL/10X			
BEARING SURF. SQ.	2 DEG	. MAX.	42.	V		OPT	ICAL COMPARATOR			
SHANK STRAIGHTNESS *	.0040	TIR	4.6040	/		CON	CE.GAGE/SUR.PLT			
INSP. PERFORMED & ACCEPTED BY:			3V INSP	DATE	: 02/	10/	//			
EPORT PREPARED BY: DA	N HEN	SON	03	NEW DATE:	: Septemb	,/ er 3	0, 2010 855548			

FORM 11-1, REV 5 03/17/98

NOTES: 1. * = PER INCH OF LENGTH

3V FASTENERS CO., INC.	FIN	AL INSPECTION REPO	RT		PG 2	OF 2			
PART NUMBER	REV.	LOT #	LO'	r size		SAMPLE SIZE			
MS27039C1-14	3	889677	55	519		500032			
DESC: CRUCI PAN HD EXT.		PRINT NUMBER		SAMPLING PLAN					
10/32 X .906		NASM27039		ANSI Z1.4 GLII, S-3					
PRINT CHARACTERISTIC	PRINT REQ.	ACTUAL	ACC.	REJ.	GAGE	EQUIPMENT			
CONCENTRICITY:				,					
SHANK TO HEAD O.D.	.022 TIR	4.022	/		CONC	ENTRICITY GAGE			
SHANK TO RECESS	.016 FIM	< .014	/		CONC	ENTRICITY GAGE			
INCOMPLETE THREADS	.063 MAX.	< .063	V		OPTI	CAL COMPARATOR			
	·				<u> </u>				
		ı							
·									
			,						
INSP. PERFORMED & ACCEPTED BY:		(3V)	DATE	: 02/	ioli	/			
	N HENSON	(NSP)	NEW DATE	: Septemb	er 30	, 2010 855548			

MATERIAL TEST REPORT

	_	•	•
	ig/ Brown- P ACIFIC, INCORPOR	ATED	
	/ DROWN'A ACIFIC, INCORPOR	MIED	•
/	13639 BORA DR. / SANTA FE SPRINGS / CALIFO	RNIA 90	670
J	(562) 021-3471 • (562) 921-7012 FAV		

S WILL CALL FASTENERS PREED CIRCLE RONA, CA 92879-1349	3) 101978-6	INVOICE NO. -0- 75150 THIS MATERIAL WAS MANUFACTURED AND TESTED IN CONFORMANCE WITH THE NOTED SPECIFICATIONS. THE INFORMATION PRESENTED HEREIN IS CORRECT AS CONTAINED IN THE COMPANY RECORDS.
REED CIRCLE (3V	10/20/10 CUST. P.O. NO. 101978-6	IN CONFORMANCE WITH THE NOTED SPECIFICA TIONS. THE INFORMATION PRESENTED HEREIN IS CORRECT AS CONTAINED IN THE COMPANY RECORDS.
FASTENERS REED CIRCLE RONA, CA 92879-1349	12/10/10 600 ILS 1131 #	G. MORENO, LAB 12/17/2010 GM
PRODUCT ORDERED	QTY. ORDERED	
28 DIA TYPE A-286 NVERTED TO 86/0.187 DIA SEAMSAFE COPPER ATED COIL	1000	KNOWINGLY OR WILLFULLY RECORDING FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW, TITLE 18. CHAPTER 47.
28 N' 36	REED CIRCLE ONA, CA 92879-1349 PRODUCT ORDERED B DIA TYPE A-286 VERTED TO VO.187 DIA SEAMSAFE COPPER FED COIL	PRODUCT ORDERED OTY. ORDERED

A-286 MILL NO. HEAT NO. 93FC		
CHEMICAL ANALYSIS	MECHANICAL PROPERTIES AND CAPABILITY	
C: .026 AL: .22	AS SHIPPED PROPERTIES 117.3 YIELD, KSI % ELON	
MN: .28 TI: 2.10 P: .012 B: .007	% RA HARDNESS SHEAR, KSI	
S: <.0003 CB: SI: .18 TA:	ETT °F TENSILE, KSI YIELD, KSI % ELON % R.A.	
NI: 24.39 M CB+TA:	STRESS RUPTURE TEMP*1200F STRESS, KSI 65 HOURS 48.6 % ELON 26.4	
CR: 14.38 CU: .06 MO: 1.13 M SE:	TEMP 1200F STRESS, KSI 70 HOURS 48.6 % ELON 34.8	3
CO: .04 / N:	H.T. PROCEDURE 1650F 2HRS W/Q, 1325F 16HRS A/C	
V: .22 FE: 56.92 CA: PB: < .0001	7 104.0 110.0 24.2	
MG: BI: < .00001	% RA 53.9 HARDNESS RC 29 SHEAR KSI	-
ZR<.01	1800F 1HR W/Q, 1325F 16HRS A/C	
ASTM GRAIN SIZE: 7/8	TENSILE, KSI 167.6 YIELD, KSI 112.9 % ELON 29.2	
ALLVAC,USA ~ MACRO:	% R.A. 55.3 HARDNESS RC 30 SHEAR KSI	
MICRO:	H.T. PROCEDURE 1250F 8HRS A/C	
OTHER: MERCURY FREE.	TENSILE, KSI 191.7 YIELD, KSI 167.4 % ELON 21.3	
	% F.A. 51.0 HARDNESS RC 36 SHEAR, KSI	

ATI Allvac Rev o 4374 Lancaster Highway Richburg, SC 29729 Phone (803) 789-3595 Customer Name Purchase Order Size Alloy .328" Rd BROWN PACIFIC INC. A-286 M2671AK-301 13639 Bora Drive PCS 34 Weight 24004 Santa Fe Springs, CA Quality Auditor: Shella Gilbert Shella Killet Date: 11/19/2010 CONDITION SHIPPED SURFACE: Hot Rolled; Descaled HEAT TREAT: Mill Annealed / Direct Quenched SPECIFICATIONS

CERTIFICATE OF TEST

HEADER REMARKS

Capability: AMS 5731 Rev. L AMS Chemistry only: AMS 5853 Rev C C50T.

10/10/2008

Traveler(s)

S-400

21443

Heat #

93FC

Ingot#

AMS 5732 Rev J C50T35 Rev S4 Am7

AMS 5734 Rev K

8-4001

AMS 5737 Rev P

06/25/04

Page 1 of 6

ASTM A-453 Rev 2010 Type 660

CHEMISTRY CR EQ = Chromium Equiv Ti Al Zr HRAT AVG .026 <.0003 .28 .18 14.38 .04 1.13 2.10 .22 .007 <.01

Travele	r(s)	Heat #	ingot#					•				
21443	A	93FC	93FC		ATI Alivac 4374 Lancaster Highway				29729 1	Phone (803) 789-3	595	Page 2 of 6
	Fe	Cu	N1	P (Zb '	Ta	W	v	Cb+Ta	Ti+Al	Ni+Co	¥
HEAT AVG	56.92	.06	24.39	.012 .0	05 <	.01	.02	.22	.05	2.32	24.43	-
					CHE	ISTRY	(TRAC	B)				
	Bi	Ca	Pb	Se	Ag	Sb						
HEAT AVG	-	- ^	-		-	÷	• •		•	-	•	
6LADLE AOD	<.00001	<.0010	<.0001	<.00005	<.0001	.0004	L					

CHEMISTRY METHOD

ELEMENTS TESTED BY METHOD

MO,W,CR,NI,CO,CU,P,NB,TA,ZR,MN,V,TI,AL,SI,FE

WET-PB
WET-BI
BI
WET-SE
SE
WET-SB
OES-CA
CA
OES-AG
CS-CS
C,S
OES-B

CHEMISTRY REMARKS

Chemistry tested at ATI ALLVAC unless otherwise noted.

CHEMISTRY ANALYTICAL METHODS

CS = Combustion/IR Detection

XRF-FE(FEBAL)

GAS = Inert Gas Fusion

OES = Spark Optical Emission

XRF = X-Ray Fluorescence

WRT = Graphite Furnace Atomic Absorption(SE); Mass Spectroscopy(PB,BI,SB)

Trav	reler(s)		Heat #	ingot#										
21443	λ		93FC		ATI	Alivac 4374	Lancaster Hig	ghway	Richbu	rg, SC 29729	Phone	(803) 7 89 –3	595	Page 3 of 8
						Capab:	llity	Tensi	le Te	st				
		Heat Treat	Test	Temp	UTS	.2% Yield	.02% Yield	%	EL		Gage L	ength	Tensile	
Operation	ingot	Code	Dir	F	ksi	kai	icei	4D	5D	%RA	4D	5D	Diameter	Tested At
		1650EK	rc	ROOM	164.0	110.6		24.2		53.9	.648		.162	ACUREN
		1800MB	rc	ROOM	167.6	112.9		29.2		55.3	.640		.160	ACUREN
SUPER		487	LC	ROOM	94.6	•							.330	ACUREN

Test Dir: L = Longitudinal, T = Transverse, ST = Short Transverse, LT = Long Transverse,

TC = Transverse Center At Size, TM = Transverse Mid-Radius At Size,

PC = Pancake, DB = Drawbar, PD = Paddle, TT = Top Transverse At Size,

BT = Bottom Transverse At Size, LC = Long Center, TX = Top Transverse Mid-Radius At Size,

LM = Longitudinal Mid Radius, LS = Longitudinal Surface, TS = Transverse Surface

Operation: SUPER = Crosshead Sep Rate of .10 inches/minute

Capability Stress Rupture

 Ht Trt Code	Test Dir	Temp F	Load Kai	Life Hrs	Upid1 Kal	Life Hrs	Upid2 Kei	Life Hrs	Upid3 Ksi	Life Hrs	Upi⊗4 Kei	Life Hrs	Upid5 Kel	Life Hrs	Upid6 Kei	Life Hrs	Upid7 Ksi	Life Hrs	%E 4D	L 5D	%RA	Bar Diam	Type Bar
1650EK : Radius =	LC .005	1200	65 BAR RUP	48.6 TURED II	70 N THE 81	59.0 WOOTH	75 SECTION	68.3	80	73.8	-	-	-	 Test	- ad At	- ACURE	·	-	28.4			.178	CSN
l800MB Radius =	LC .005	1200 I	70 Bar Rupt	48.6 TURED II	75 N THE SI	59.0 MOOTH	80 SECTION	68.4	85	70.2	-	•	-		- led At	- ACURE	_	-	34.8			.178	CSN

Test Dir: L = Longitudinal, T = Transverse, ST = Short Transverse, LT = Long Transverse, TC = Transverse Center at size, TM = Transverse Mid-Radius At Size, PC = Pancaica, DS = Drawbar, PD = Paddle, TT = Top Transverse At Size, BT = Bottom Transverse At Size, LC = Long Center, TX = Top Transverse Mid-Radius At Size, LM = Longitudinal Mid Radius, LS = Longitudinal Surface, TS = Transverse Surface

Type Ber: TSR = Smooth, CN = Center Notch, CSN = Combination Smooth and Notch

CAP	ABILITY	HARDNRSS

Ingot	Heat Treat Code	Hardness val	Hardness Type	Teeted At
	1650EK	29	HRC	ACUREN
	1800MB	30	HRC	ACUREN
	482	85 J	HRBW	ACUREN

MECHANICAL REMARKS

Phone (803) 789-3695

Page 4 of 6

The tensile and hardness performed for Heat Treat Code 48% are As Shipped tests.

METALLOGRAPHY

GRAIN SIZE (As shipped cond.): Avg. ASTM 9 Tested at Acuren

MACRO

Material has been macro inspected and ultrasonic tested at intermediate billet to clear melt-type(piping,inclusions,etc.)defects.

REMARKS

Richburg, SC 29729

Material has been produced, sampled, inspected, and tested in accordance with the customer purchase order and referenced specifications and conforms to the requirements unless otherwise noted in this certificate of test.

Any deviations to specification or customer purchase order requirements relative to testing, test values, hot working fixed practices, have been resolved in writing with customer prior to shipment.

The recording of false, fictitious, or fraudulent statements or entries on this document may violate Federal statutes, including but not limited to Title 18, Chapter 47 of the United States Code, and may be punishable as a felony.

If customer purchase order does not specifically reference a revision to a specification, Allvac will work to the latest revision on file and in effect at time of order placement.

Test methods are per the latest ASTM Standards, currently recognized industry practices; or as agreed upon between Allvac and customer.

Any chemical elements analyzed and found to have values below the actual limits of detection may be reported as < less than or reported at the detection level.

When values are reported to the significant places called for in the specifications, rounding will be done in accordance with ASTM E-29.

This is to certify that during manufacturing, handling, testing and inspection, this material did not come in direct contact with mercury or any device employing a single boundary of containment.

This Certificate of Test shall not be reproduced except in full, without the written approval of Allvac Quality.

No weld repair has been performed on this material.

Material Safety Data Sheets (MSDS) - View or print from our site: www.allvac.com. Printed copies available on request from the Allvac Sales Department.

Allvac products have not come in contact with radioactive, fertile or fissionable materials during manufacturing or processing.

Melt source in compliance with DFAR 252.225-7014, Alternate 1.

SPECIAL REMARKS

MELT METHOD: AOD/ESR

93FC

S-400 (GT193) supplier codes: Allvac Monroe - 87012, Allvac Lockport - T1226, Acuren - T7605, Westmoreland T7869

METHODS: C/S/O/N = ASTM E1019 (2008); XRF = ASTM E572 (2002A/2006*2), ASTM E1085 (1995/2004), E2465 (2006); OES = ASTM E415 (2008), ASTM E1086 (2008); RTT = ASTM E8 (2008); ASTM E21 (2009); Stress Rupture = ASTM E139 (2006), ASTM E292 (2009); Creep = ASTM E139 (2006); y = ASTM E23 (2007A*1); Fracture Toughness = ASTM E399 (2008); Rockwell Hardness = ASTM E18 (2008B); 11 Hardness = ASTM E10 (2008); ASTM E45 = ASTM E45 (2005*2); AMS 2300 = AMS 2300 (K); Grain Size = E112 (1996/2004*2), ASTM E930 (1999/2007), ASTM E1181 (2002/2008).

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MAGNETIC
INSPECTION, INC.

104244 2-10-4

9356½ San Fernando Road, Unit B • Sun Valley, CA 91352 (818) 504-0677 • FAX (818) 504-1559

SOLD TO:

3V FASTENERS 320 REED CIRCLE CORONA , CA 92879 . (951) 734-4391



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